

# SEQUENCE LISTING

<110> Kim, Kwang-Soo  
Kim, Chun-Hyung  
Robertson, David

<120> Methods and Reagents for Identifying  
Compounds and Mutations That Modulate Dopamine  
Beta-Hydroxylase Activity

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<150> US 60/274,095

<151> 2001-03-07

<160> 49

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Leu Pro Tyr His Ile Pro Leu Asp Pro Glu Gly Ser Leu Glu Leu Ser  
35 40 45  
Trp Asn Val Ser Tyr Thr Gln Glu Ala Ile His Phe Gln Leu Leu Val  
50 55 60  
Arg Arg Leu Lys Ala Gly Val Leu Phe Gly Met Ser Asp Arg Gly Glu  
65 70 75 80  
Leu Glu Asn Ala Asp Leu Val Val Leu Trp Thr Asp Gly Asp Thr Ala  
85 90 95  
Tyr Phe Ala Asp Ala Trp Ser Asp Gln Lys Gly Gln Ile His Leu Asp  
100 105 110  
Pro Gln Gln Asp Tyr Gln Leu Leu Gln Val Gln Arg Thr Pro Glu Gly  
115 120 125  
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130 135 140  
Tyr Leu Ile Glu Asp Gly Thr Val His Leu Val Tyr Gly Ile Leu Glu  
145 150 155 160  
Glu Pro Phe Arg Ser Leu Glu Ala Ile Asn Gly Ser Gly Leu Gln Met  
165 170 175  
Gly Leu Gln Arg Val Gln Leu Leu Lys Pro Asn Ile Pro Glu Pro Glu  
180 185 190  
Leu Pro Ser Asp Ala Cys Thr Met Glu Val Gln Ala Pro Asn Ile Gln  
195 200 205  
Ile Pro Ser Gln Glu Thr Thr Tyr Trp Cys Tyr Ile Lys Glu Leu Pro  
210 215 220  
Lys Gly Phe Ser Arg His His Ile Ile Lys Tyr Glu Pro Ile Val Thr  
225 230 235 240  
Lys Gly Asn Glu Ala Leu Val His His Met Glu Val Phe Gln Cys Ala  
245 250 255  
Pro Glu Met Asp Ser Val Pro His Phe Ser Gly Pro Cys Asp Ser Lys  
260 265 270

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<210> 38
<211> 11
<212> PRT
<213> Homo sapiens

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<220>
<221> VARIANT
<222> 6
<223> Xaa at position 6 can be Valine, Methionine, or
      aconservative substitution for either Valine or
      Methionine or can be absent.

```

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<400> 38
Glu Asn Ala Asp Leu Xaa Val Leu Trp Thr Asp
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```

```

<210> 39
<211> 21
<212> PRT
<213> Homo sapiens

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<220>
<221> VARIANT
<222> 11
<223> Xaa at position 11 can be Valine, Methionine or
      can be a conservative substitution for either
      Valine or Methionine, or can be absent.

```

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<400> 39
Asp Arg Gly Glu Leu Glu Asn Ala Asp Leu Xaa Val Leu Trp Thr Asp
 1             5             10             15
Gly Asp Thr Ala Tyr
             20

```

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<210> 40
<211> 31
<212> PRT
<213> Homo sapiens

```

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<220>
<221> VARIANT
<222> 16

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<223> Xaa at position 16 can be Valine, Methionine or  
can be a conservative substitution for either  
Valine or Methionine or can be absent.

<400> 40

Leu	Phe	Gly	Met	Ser	Asp	Arg	Gly	Glu	Leu	Glu	Asn	Ala	Asp	Leu	Xaa
1				5				10						15	
Val	Leu	Trp	Thr	Asp	Gly	Asp	Thr	Ala	Tyr	Phe	Ala	Asp	Ala	Trp	
			20					25					30		

<210> 41

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> 21

<223> Xaa at position 21 can be Valine, Methionine or  
can be a conservative substitution for either  
Valine or Methionine or can be absent.

<400> 41

Leu	Lys	Ala	Gly	Val	Leu	Phe	Gly	Met	Ser	Asp	Arg	Gly	Glu	Leu	Glu
1				5				10						15	
Asn	Ala	Asp	Leu	Xaa	Val	Leu	Trp	Thr	Asp	Gly	Asp	Thr	Ala	Tyr	Phe
			20					25					30		
Ala	Asp	Ala	Trp	Ser	Asp	Gln	Lys	Gly							
		35					40								

<210> 42

<211> 12

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> 7

<223> Xaa at position 7 can be Aspartic Acid, Glutamic  
Acid, or can be a conservative substitution for  
either Aspartic Acid or Glutamic Acid or can be  
Absent.

<400> 42

Asp	Thr	Ala	Tyr	Phe	Ala	Xaa	Ala	Trp	Ser	Asp	Gln
1				5				10			

<210> 43

<211> 21

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> 11

<223> Xaa at position 11 can be Aspartic Acid, Glutamic

Acid or a conservative substitution for either  
Aspartic Acid or Glutamic Acid or can be absent.

<400> 43

Trp	Thr	Asp	Gly	Asp	Thr	Ala	Tyr	Phe	Ala	Xaa	Ala	Trp	Ser	Asp	Gln
1				5					10					15	
Lys	Gly	Gln	Ile	His											
			20												

<210> 44

<211> 31

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> 16

<223> Xaa at position 16 can be Aspartic Acid, Glutamic  
Acid or can be a conservative substitution for  
either Aspartic Acid or Glutamic Acid or can be  
absent.

<400> 44

Asp	Leu	Val	Val	Leu	Trp	Thr	Asp	Gly	Asp	Thr	Ala	Tyr	Phe	Ala	Xaa
1				5					10					15	
Ala	Trp	Ser	Asp	Gln	Lys	Gly	Gln	Ile	His	Leu	Asp	Pro	Gln	Gln	
			20					25					30		

<210> 45

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> 21

<223> Xaa at position 21 can be Aspartic Acid, Glutamic  
Acid or can be a conservative substitution for  
either Aspartic Acid or Glutamic Acid or can be  
absent.

<400> 45

Glu	Leu	Glu	Asn	Ala	Asp	Leu	Val	Val	Leu	Trp	Thr	Asp	Gly	Asp	Thr
1				5					10					15	
Ala	Tyr	Phe	Ala	Xaa	Ala	Trp	Ser	Asp	Gln	Lys	Gly	Gln	Ile	His	Leu
			20					25					30		
Asp	Pro	Gln	Gln	Asp	Tyr	Gln	Leu	Leu							
		35					40								

<210> 46

<211> 11

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> 6  
 <223> Xaa at position 6 can be Aspartic Acid, Glutamic  
 Acid or can be absent.

<400> 46  
 Ile Glu Gly Arg Asn Xaa Ser Ser Gly Ile Arg  
 1 5 10

<210> 47  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> 11  
 <223> Xaa at position 11 can be Aspartic Acid, Glutamic  
 Acid, or can be a conservative substitution for  
 either Aspartic Acid or Glutamic Acid or can be  
 absent.

<400> 47  
 His Asn Pro Leu Val Ile Glu Gly Arg Asn Xaa Ser Ser Gly Ile Arg  
 1 5 10 15  
 Leu Tyr Tyr Thr Ala  
 20

<210> 48  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> 16  
 <223> Xaa at position 16 can be Aspartic acid, Glutamic  
 Acid or can be a conservative substitution for  
 either Aspartic Acid or Glutamic Acid or can be  
 absent.

<400> 48  
 Leu Glu Val His Tyr His Asn Pro Leu Val Ile Glu Gly Arg Asn Xaa  
 1 5 10 15  
 Ser Ser Gly Ile Arg Leu Tyr Tyr Thr Ala Lys Leu Arg Arg Phe  
 20 25 30

<210> 49  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> 21  
 <223> Xaa at position 21 can be Aspartic Acid, Glutamic  
 Acid or can be a conservative substitution for

either Aspartic Acid or Glutamic Acid or can be  
absent.

<400> 49

Ser	Arg	Tyr	Leu	Arg	Leu	Glu	Val	His	Tyr	His	Asn	Pro	Leu	Val	Ile
1				5					10					15	
Glu	Gly	Arg	Asn	Xaa	Ser	Ser	Gly	Ile	Arg	Leu	Tyr	Tyr	Thr	Ala	Lys
			20					25					30		
Leu	Arg	Arg	Phe	Asn	Ala	Gly	Ile	Met							
		35					40								